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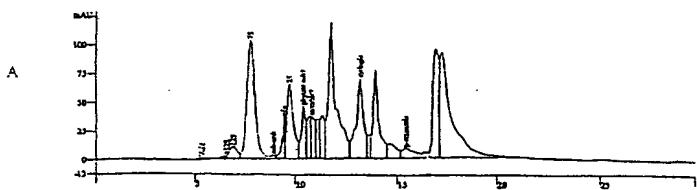
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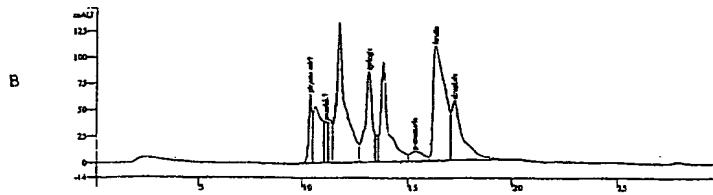
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(54) Title: PREPARATION OF CANOLA PROTEIN ISOLATE AND USE IN AQUACULTURE

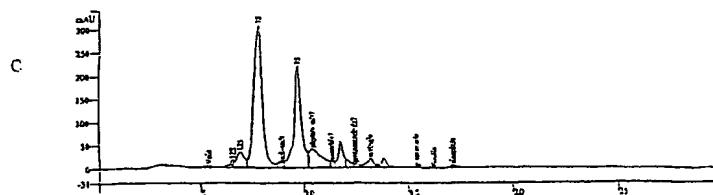
Bench Extract December 11, 2003: SEC-HPLC chromatogram 1:4 dil. 50- μ L injection.



Bench DF Permeate December 12, 2003: SEC-HPLC chromatogram no dil. 50- μ L injection.



Bench DF UF Dialyzed Isolate December 17, 2003: SEC-HPLC chromatogram 1% 50- μ L injection.



(57) Abstract: A canola protein isolate useful in aquaculture is formed by a procedure in which canola oil seed meal is extracted to cause solubilization of protein in the canola oil seed meal to form an aqueous protein solution having a protein content of about 5 to about 40 g/L and a pH of about 5 to about 6.8. After separation of the aqueous protein solution from the residual canola oil seed meal, the protein concentration is increased to at least about 50 g/L while maintaining the ionic strength substantially constant by using a selective membrane technique. The concentrated protein solution is dried to provide a canola protein isolate having a protein content of at least about 90 wt% (N x 6.25) d.b.

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